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STEM topics: coding and robotics - "Can I close the window?" project

Media literacy and digital citizenship

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SHORT DESCRIPTION

The Project is linked to an Accreditation Erasmus+ project in its first round, which we plan to extend after the current school year. Students will collaborate on different topics: coding, robotics, media literacy, well-being and nutrition, STEM.

Health education will be relevant as we also aim to promote healthy eating taking into account a sustainable and environmentally-friendly perspective. Additionally, we have planned to intertwine the project with a school project which is being implemented in parallel in the Spanish school called "Can I close the window?". This project addresses the evaluation of strategies and the implementation of safety measures to improve ventilation indoors, which is particularly relevant in these times of pandemic. Therefore, through research and evaluation students will acquire the necessary skills to critically analyse factors affecting health and develop responsibility for their own personal health and well-being as part of their own choices and behaviours as well as the choices and circumstances of others.

AIMS

The project aims on European key competences, above all linguistic competences, digital and STEM competence, social/civic competences.

We have set the objectives accordingly as:

- O1- to raise awareness of the importance of STEM competencies as 21st-century skills ;
- O2- equip students with STEM (Science, Technology, Engineering, and Mathematics skills) skills and robotics in the context of competencies for 2030, Artificial Intelligence-based algorithmic systems and trades of the future ;
- O3- to enhance students' multilingual skills and foster European Union identity throughout the project implementation, by having an international and cultural exchange.
- O4- Ensure healthy lifestyles and promote well-being among our students and communities.
- O5- to equip students with basic media literacy competencies

WORK PROCESS

Both partners will work together to organize the activities. Till the physical transnational mobility in April, Spain, the teams will start collaborating on twinspace with specific tasks every month. One online meeting will be organised in February, one in March. Romania will organise topics related with media literacy and

wellbeing(nutrition), Spain will organise topics related with coding(robotics), STEM. . Considering the accreditation project is embedded in the eTwinning project some workshops related to coding, media literacy and STEM will be carried out within the transnational mobility programmes

A detailed calendar is attached.

EXPECTED RESULTS

Outcomes and Results are directly connected with our objectives.

By implementing the Project, as outcomes;

- We will enhance awareness about the importance of STEM competencies among our students;
- We will improve students' STEM-related key and transversal competencies such as problem-solving, creativity, collaboration, critical thinking, and inquiry;
- Students will raise their multilingual skills;
- We will reinforce the European Union identity of partner schools;
- We will raise the European Dimension and the internationalisation of our schools.

Results:

- Twinspace;
- A set of STEM / Coding/ MIL/ activities created by students as a result of implemented activities. (powerPoint presentation, videos, digital resources(Filmora, Powtoon, Sparkol);
- a healthy nutrition guide
- A practical guide with strategies and measures to make healthier and safer indoor spaces.
- Compilation of overall results in a digital leaflet

Timeline

Activity	Description of activities:	Start and end of activities	Participating organisations
Preparations	The teachers of the partner institutions get in contact and we add one another in our contact list on eTwinning. Then we all join the project to get started.	December 2021	Teachers at both schools
Preliminary tasks	Teachers write a description of the project as well as goals, tasks and expected results. Logo competition	January 2022	Teachers at both schools
Students' introductions	The students describe themselves on "padlet". As an idea they record a voice message for their peers: they introduce themselves, write about their families, interests and what they are like...) A group picture or a slideshow with pictures of the students is added to the padlet. They guess who is who by matching voice messages with faces on the pictures.	February, 2022	Students at both schools

Presenting the school and town	Video or presentation of each school and town. Results are uploaded to the Twinspace	February/ March, 2022	Students
	Online Media Literacy workshop ("Who is manipulating who? Tips to master your emotions in relation with media messages")	March 2022	Students at both schools/ activity conducted by the Romanian team
Mobility preparation Transnational mobility	The Spanish team prepares presentations and workshops for their peers Results, materials and reflections about the experience in Spain transnational mobility	April, 2022	
Europe Day		May, 9 2022	Students
Online Meeting	Starting a new school year	September 2022	Both schools
Transnational mobility	Results, materials and reflections about the experience	October 2022	Romania
Compilation of overall results	Compiling all results in a digital leaflet or similar		